

LAWN MOWER

INSTRUCTION AND PARTS MANUAL

SAFETY RULES

A Rotary Mower can be dangerous if used carelessly. By following these suggestions, accidents can be avoided.

1. Remove all sticks, stone, wire, and other debris from lawn before mowing. These are hazards to both the mower and the people about the mower.
2. Always disconnect spark plug cable during repair or refueling operations.
3. Always stand with the feet solidly anchored when starting the mower to avoid moving the mower onto the feet.
4. NEVER place hands or feet under mower or near discharge chute while engine is running.
5. Do not tilt mower to extreme angle while engine is running. Cut grass on hills and bank sideways, not up and down.
6. Always stop engine when not cutting grass.
7. Do not fill gas tank while engine is running. Do not spill gasoline on hot engine.
8. Keep children and pets away from area at all times during mowing operation. Never allow mower to discharge grass toward any person.
9. Always start engine on ground or on relatively soft surface. Do not start in high or uncut grass.

22" Rotary Power Mowers
(Staggered Wheel Design)



The illustration at right shows typical mower for parts identification. Engine type, starter, etc., and mower equipment, wheel adjuster, etc., varies with model.

YOUR WARRANTY . . . WHAT IT COVERS . . . AND HOW IT WORKS

Every part of your lawn mower is warranted against defects in material and workmanship for one season from the time it is purchased. This warranty is in two parts. One covers the engine only, the other covers the remaining parts of the mower.

The Engine Warranty

In case of engine warranty claim use the following procedure: The engine manufacturer maintains a nation-wide network of service stations to handle engine service. Look for the manufacturer's name on your engine nameplate and refer to the list of authorized service stations included in engine manual, or check the "gas engine" listing in the classified section of your telephone directory. Only properly authorized service stations can carry out any warranty work on your engine. Be sure to take it to your engine manufacturer's service station as other shops obviously are not in a position to furnish warranty work.

The Warranty for the Mower Parts Other Than the Engine

The factory warrants all other parts of your mower, except the engine, against defects in material and workmanship that have been performed at the factory. This warranty does not apply to delivery damage, normal wear and tear, or damage caused by misuse or negligence, nor is the factory obligated to assume charges for labor in the replacement of defective parts.

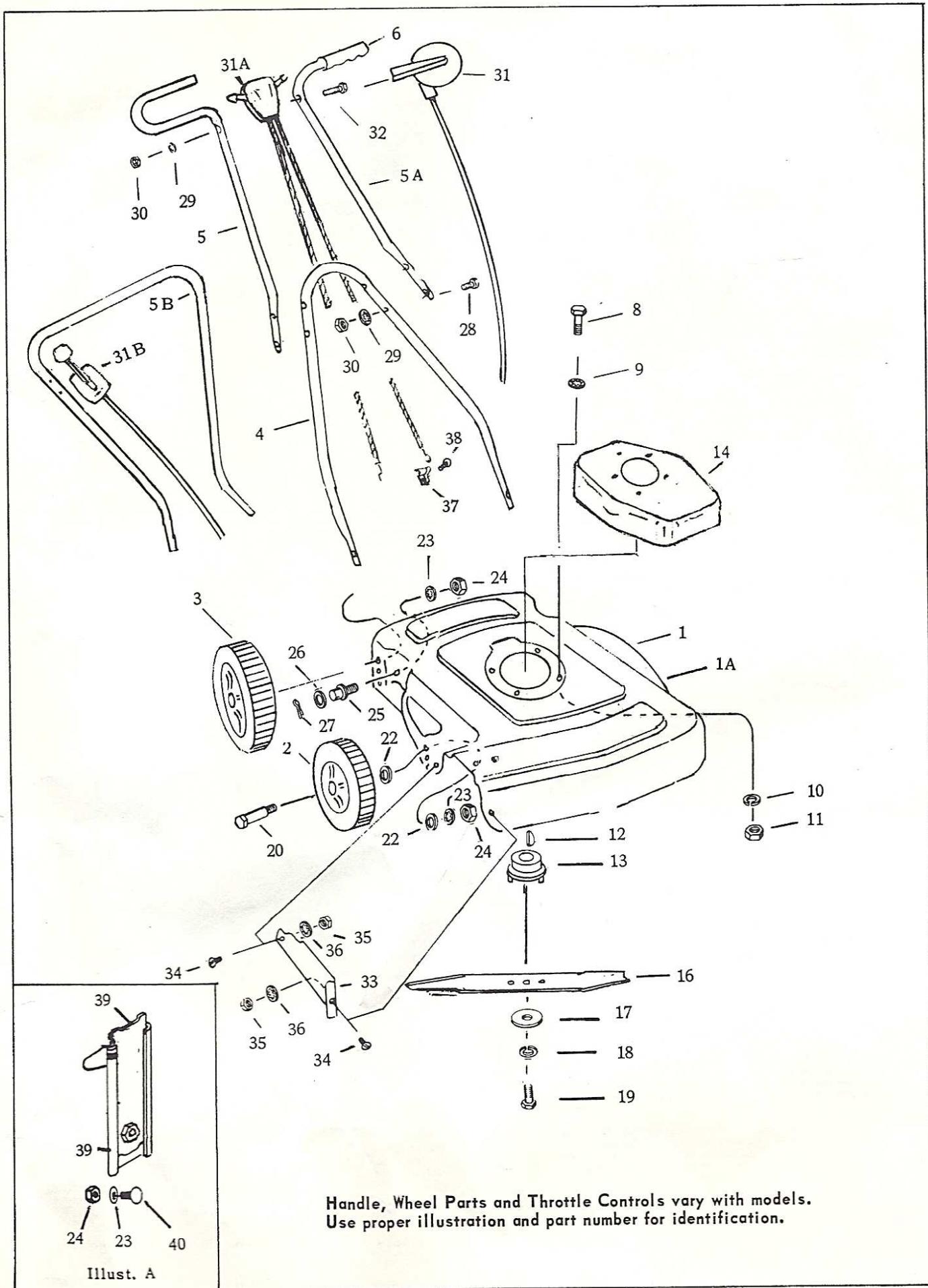
To process your warranty claims quickly . . . do NOT return the complete lawn mower to the factory. The mower or mower parts may be returned to the factory only after the factory has given you written permission to do so. Mower parts that need replacing under the terms of the warranty can be supplied by the factory distributor in your area or by the factory itself. Before a claim will be honored the defective parts must be sent, freight prepaid, to the factory, or its local distributor for examination. If the claim is justified either a replacement or a credit will be issued. In most cases the replacement part is so simple to install, you will be able to do it yourself.

Blades are not warranted against normal wear, nor are they warranted against damage if they strike a solid object. The factory will not replace blades under the terms of this warranty, because their very nature makes them an expendable item. If you operate your mower with a vibrating blade, you will cause a great deal of damage to it. This mower must not be used if the blade begins to vibrate. If you use your mower with a vibrating blade you will immediately void both your engine and mower warranty. Follow the terms of your warranty closely and you'll derive the utmost satisfaction from your new mower.

When writing the factory regarding your mower be sure to indicate the model number and serial number obtained from the nameplate on the mower housing. Do not take this data from the engine nameplate.

This warranty not assignable or transferrable.

This warranty does not apply to mowers used for rental or commercial purposes.



HOW TO ORDER REPAIR PARTS

Include with your order --

1. Model number and serial number from mower nameplate. (Not engine nameplate.)
2. Part number and part name.
3. The quantity desired.

4. Check or money order for cost of parts plus 50¢ to cover transportation and insurance. (Minimum order \$2.00 plus 50¢ postage and insurance.) If the cost of parts required totals less than \$2.00, it is suggested that you add a spare blade to your order to comply with the \$2.00 minimum.

Mail your order to the address shown on the mower nameplate (not engine nameplate).

ILLUST.	PART NO.	DESCRIPTION	PRICE EACH	ILLUST.	PART NO.	DESCRIPTION	PRICE EACH
	Engine	For parts check engine plate for manufacturer, model, type, and Serial No. Contact nearest manufacturer's service agency as found in phone book yellow pages.		24	402-11	Hex Nut 3/8-16	.10
1	451020	Housing	\$28.50	25	150591	Handle Pivot Screw	.15
1A	451201	Housing with rear baffle	29.50	26	542-20	Flat Washer 1/2"	.10
2	5104-10	Wheel - 7.00 x 1.50 Polyethylene	2.00	27	610-3	Cotter Pin 3-32 x 1	.10
2	5104-13	Wheel - 7.00 x 1.50 Black Polyethylene with White sidewalls	2.50	28	101-11	Hex Head Screw 1/4-20 x 1-1/8	.10
3	5105-14	Wheel - 8.00 x 1.75 Polyethylene	2.50	29	510-5	Lockwasher Int Tooth 1/4	.10
3	5105-20	Wheel - 8.00 x 1.75 Black Polyethylene with White sidewalls	3.00	30	400-9	Hex Nut 1/4-20	.10
4	451001	Lower Handle	5.50	31	251370-1	Engine Control	1.20
5	451290	Upper Handle (2 Req.)	2.10	31A	252210	Engine and starter control - Briggs	3.75
5A	450390	Upper Handle (2 Req.)	1.85	31A	251731	Engine and starter control - Clinton	3.75
5B	450651	Upper Handle (1 Req.)	3.75	31B	252320	Engine Control	1.20
6	5201-4	Grip-Handle	.20	32	101-15	Hex Head Screw 1/4-20 x 1-5/8	.10
8	102-6	Hex Head Screw 5/16-18 x 1-1/4	.10	32	101-13	Hex Head Screw 1/4-20 x 1-3/8	.10
9	510-6	Lockwasher Int Tooth 5/16	.10	32	101-18	Hex Head Screw 1/4-20 x 2	.10
10	501-6	Split Lockwasher - Med 5/16	.10	32	101-22	Hex Head Screw 1/4-20 x 2-1/2	.10
11	402-10	Hex Nut 5/16-18	.10	33	250681	Gate Mulcher	1.25
12	910-6	Woodruff Key - #6	.10	34	180-24	Rd. Hd. Scr. 10-24x3/8	.10
13	154360	Cutter Blade Hub 1" overall length.	1.00	35	400-7	Hex Nut 10-24	.10
13	9710A	(Cutter Blade Hub 1-3/4 overall length Used with shorter 2-7/16 length crankshaft)	1.00	36	510-3	Lockwasher Int Tooth #10	.10
14	351951	Shroud-Briggs	3.80	37	221407	Starter Cable Clip	.10
16	351830	Cutter Blade	3.25	38	1810-3	Sheet Metal Screw	.10
17	150650	Washer: Flat 3/8 x 2 x 3/16	.20			Wheel Adjuster parts when so equipped Illust. A.	
18	502-7	Split Lock Washer - Heavy 3/8	.10	39	M300L	Wheel Adjuster Assembly Lt. Hd.	1.50
19	113-7	H.H. Screw 3/8-24 x 1-1/2 Heat Treated For Use With 154360 Hub	.15	39	M300R	Wheel Adjuster Assembly Rt. Hd.	1.50
19	113-10	H.H. Screw 3/8-24 x 2-1/4 Heat Treated For Use With 9710A Hub	.15	40	154390	Wheel Adjuster Mounting Screw	.10
20	153831	Axle Bolt	.40			Left and right sides are determined with operator standing in normal operating position, with spark plug facing operator	
22	540-3	Flat Washer 3/8	.10			10-24 x 1/2 Throttle Control Mfg. Screw (2 req.) (Not illust.)	
23	510-7	Lock Washer Int Tooth 3/8	.10	2210-65		OPTIONAL ACCESSORIES	
			33	PK 17		Set of four wheel adjusters	6.00
				GC1922		Grass and leaf catcher attachment	8.00
				154780-3		Package of three grass bags	6.00
				250681		Gate Mulcher	1.25

ASSEMBLY INSTRUCTIONS

HANDLE

Lay the parts of the handle on a flat surface and, using the hardware from the parts bag, assemble the handle leaving the nuts loose. Put the hole in one leg of the lower handle over the pivot stud on one side of the mower and spring the handle yoke so that the hole in the other leg will snap onto position on the opposite pivot stud. Secure handle to pivot studs with washers and cotter pins. Next, attach engine control to handle by partially removing top handle screw so that control tab with hole can be slipped onto screw and clamped between the two handle halves. Now firmly tighten all five handle nuts and slip on handle grips.

ENGINE CONTROLS (For handle mounted units only)

After controls are mounted on mower handle check to see that they operate correctly by referring to the engine manual. Sometimes in shipping or packing, the cables might slip under the engine casing clamps and a slight repositioning might be required as outlined in the engine manual. The need for repositioning will become apparent if the engine starts hard from insufficient choke closing, or fails to stop when control is placed in stop position.

WHEELS & HEIGHT ADJUSTMENT

After inserting the axle bolt thru the wheel, place on a 3/8 washer and insert thru one of the housing wheel mounting holes. (Use second hole from bottom. This provides a cutting height of approximately 2", which is recommended for the average lawn.) Place another 3/8" washer on the axle bolt at the inside of the housing, followed by a lock-

washer and 3/8" nut. Tighten securely. Other cutting heights are obtained by repositioning the wheels at the other hole locations which are in increments of 5/8".

When wheel height adjusters have been furnished, it is only necessary to insert a wheel and slide assembly into each of the four channels while disengaging the locating pin until such a position is reached. If your mower is not now so equipped, kit #PK-17, a set of four wheel adjusters and hardware at \$6.00 cost, can be ordered and very simply installed by bolting on at the holes already provided in the mower housing.

CAUTION: Always stop engine before making wheel height adjustment as there is a tendency to grip the bottom of mower housing while adjusting and such action could be disastrous if engine was still running.

LUBRICATION

Follow the engine owner's guide for lubrication instructions of the engine. To service air cleaner it is necessary to remove engine shroud (when so equipped). After every five hours of mower use, a few drops of light oil should be put on each wheel bearing.

USING YOUR ROTARY MOWER

Refer to separate engine manual for proper lubrication, starting and maintenance instructions. To insure longer engine life, run at approximately half speed. Increase engine speed only when encountering unusual conditions.

To maintain a beautiful lawn throughout the growing season, it is important that the grass be cut at the proper height. In spring and early summer when normally there is plenty of moisture and grass grows rapidly, lawns may be cut quite short. Later on in the event of dry weather, the grass should be cut higher to prevent areas in the lawn from "burning out". The change in cutting height is easily accomplished with the wheel height adjusters. Without the wheel height adjusters, the cutting height can be changed by unbolting the wheel axles and moving them to either a higher or lower position. If you desire to frequently change the cutting height position, and your mower is not equipped with wheel height adjusters, then we strongly recommend that you purchase wheel adjuster kit #PK-17 in order to simplify this task.

For best results, we do not recommend the cutting of wet grass, because it tends to stick to the underneath side of the housing, thus preventing proper mulching or the discharge of grass clippings.

After each cutting of young, juicy, or wet grass, be sure to clean out the underside of the mower housing, either with a putty knife or hose and water. Failure to keep the underside of the housing clean will result in poor cutting performance.

GATE MULCHER

(STANDARD EQUIPMENT ON SOME MODELS OR AVAILABLE AS AN ATTACHMENT FROM THE FACTORY)

The gate mulcher fits into the discharge chute with two easy fastenings. Use when grass or leaves are dry, or, as a safety device to lessen the possibility of propelling foreign objects. As the mower is run the leaves and grass are pulverized and the particles returned to the soil. Be sure to practice all the Safety Rules listed on front page whether using the gate mulcher or not.

BLADE CARE AND ASSEMBLY

The blade must be kept sharp and balanced for efficient mowing and long engine and mower life. When sharpening the blade it is best to have it sharpened by a reputable lawn mower repair organization who will be careful to remove an equal amount of the blade from each side during the sharpening operation and use proper methods in rebalancing. An unbalanced blade will cause excessive vibration and undue wear on the engine and blade assembly.

If the blade is removed, make sure that the blade parts are reassembled in the following order as shown in the exploded view. Woodruff key in shaft, blade hub, blade, large flat washer, lock washer, 3/8-24 heat treated bolt. Tighten to 32 ft-lbs torque. (Real Tight) Use a box wrench and rap with a hammer if a torque wrench is not available. Not sufficiently tightening the blade bolt or omitting the lock washer could be hazardous. As a precaution occasionally check this blade bolt for proper tightness.

CAUTION: Always remove the spark plug wire whenever you are checking the blade to prevent accidental starting.



GRASS AND LEAF CATCHER ATTACHMENT

This optional accessory is a work saver that can be quickly attached to many 19" or 22" rotary mowers. Grass clippings and leaves are gathered while you mow - reducing the raking chore. In the fall dry leaves are easily pulverized while you mow. The kit GC 1922 at \$8.00 contains a heavy gauge steel grass chute, a grass bag, chrome plated bag support arm plus all the necessary fasteners. Mower housings have mounting holes pre-drilled at the factory for easy installation.

For greater convenience and reducing work in handling grass clippings on large lawns, the purchase of additional 3 pack grass bags is recommended, at \$6.00 for a pack of 3. Carry additional bags on handle of mower and when one bag is filled, remove, pull draw string closed leaving full bag on lawn for pick up and emptying later when all bags are full or mowing completed. Using several bags saves making extra trips to the trash barrel when handling a lot of clippings.

Grass and Leaf Catcher attachment and 3 pack grass bags are available from your dealer or directly from the factory.